CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/WNo.10/KVS/CSR-06/080c/CEMENT/2016-17 Date: 01.07.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. K.V. Subbareddy,** No. 106/B, Ashwathnagara, RMV 2nd Stage, Bangalore - 94.
*NAME OF THE WORK	:	Providing CC Roads at Basavanna Temple surroundings Doddabommasandra Old Village in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-PMT/199/2015-16 Dated: 05.02.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	30.06.2016
PERIOD OF TESTING	:	30.06.2016 to 01.07.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50%	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	455 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

AE / AEE (WRP) SD

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Job No.: CTCE/BBMP/WNo.10/KVS/CSR-06/080c/SAND-Gradation/2016-17 : 01.07.2016

TEST REPORT ON DETERMINATION GRADATION OF MANUFACTURED SAND

* **Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. K.V. Subbareddy,**
No. 106/B, Ashwathnagara, RMV 2nd Stage, Bangalore - 94.

* **Name of Work** : Providing CC Roads at Basavanna Temple surroundings Doddabommasandra Old Village in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/199/2015-16 Dated: 05.02.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Manufactured Sand

Sample Received on : 30.06.2016

Date of Testing : 01.07.2016

AEE(WP)SD

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	91.65	90-100	90-100	90-100	95-100
2.36	76.93	60-95	75-100	85-100	95-100
1.18	56.72	30-70	55-90	75-100	90-100
600 Micron	38.16	15-34	35-59	60-79	80-100
300 Micron	14.39	5-20	8-30	12-40	15-50
150 Micron	1.74	0-10	0-10	0-10	0-10

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Remarks : This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/WNo.10/KVS/CSR-06/080c/AGG/GR/2016-17 : 01.07.2016

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. K.V. Subbareddy** No. 106/B, Ashwathnagara, RMV 2nd Stage, Bangalore - 94.
* Name of Work	: Providing CC Roads at Basavanna Temple surroundings Doddabommasandra Old Village in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-PMT/199/2015-16 Dated: 05.02.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 30.06.2016
Date of Testing	: 01.07.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.26	95-100	85-100
20	36.04	30-70	0-20
10	14.27	10-35	0-5
4.75	1.89	0-5	-

AEE (VRP) CD

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Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/WNo.10/KVS/CSR-06/080c/CUBE/2016-17 05.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. K.V. Subbareddy,** No. 106/B, Ashwathnagara, RMV 2nd Stage, Bangalore - 94.
* Name of the work	: Providing CC Roads at Basavanna Temple surroundings Doddabommasandra Old Village in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-PMT/199/2015-16 Dated: 05.02.2016
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 05.08.2016

AEE VVPURSD

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2016	05.08.2016	8.188	472.1	20.98
2	08.07.2016	05.08.2016	8.243	489.5	21.76
3	08.07.2016	05.08.2016	8.322	502.4	22.33

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* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 05.08.2016

AEE (WRP) SD

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2016	05.08.2016	8.125	475.4	21.13
2	08.07.2016	05.08.2016	8.211	490.7	21.81
3	08.07.2016	05.08.2016	8.169	502.6	22.34

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Reference	: EE/BTP/BBMP/E-PMT/199/2015-16 Dated: 05.02.2016
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 05.08.2016

AEE (NGP) SD

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2016	05.08.2016	8.173	511.4	22.73
2	08.07.2016	05.08.2016	8.169	480.7	21.36
3	08.07.2016	05.08.2016	8.138	492.8	21.90

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Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 05.08.2016

AEE (VRP)SD

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2016	05.08.2016	8.196	496.4	22.06
2	08.07.2016	05.08.2016	8.155	470.5	20.91
3	08.07.2016	05.08.2016	8.178	485.4	21.57

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* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 05.08.2016

AEE (WRP) SO

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2016	05.08.2016	8.372	479.5	21.31
2	08.07.2016	05.08.2016	8.251	497.6	22.12
3	08.07.2016	05.08.2016	8.115	516.2	22.94

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